

L5 ANSWER 8 OF 97 CA COPYRIGHT 2001 ACS
AN 132:312297 CA
TI Manufacture of **calcium silicate** thermal
insulating fire-resistant material
IN Sun, Yongsheng; Sun, Xiangyun; Zhou, Jinan; Yu, Xiangxu
PA Mingfa Thermal Insulation Material Co., Ltd., Laizhou, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.
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DT Patent
LA Chinese
IC ICM C09K021-02
CC 57-6 (Ceramics)

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CN 1204678	A	19990113	CN 1998-102760	19980703
AB	The material comprises xonotlite, wollastonite , and/or Si additive, and reinforcing fiber. Preferably, the xonotlite is synthesized from amorphous silica micro-powder (such as silica ash, rice husk ash, or white carbon black) contg. >88% SiO ₂ , 0-20% quartz powder, and Ca material (such as lime , lime hydrate, or Ca ₂ C slag) contg. >95% CaO; the material contains 0-40% wollastonite and 0-20% Si additive; and the reinforcing fiber is ceramic fiber or cotton fiber. The material is manufd. by mixing silica micro-powder and Ca material, heating at 80-100.degree. for 1-3 h, adding wollastonite and 2-8% fiber, forming, allowing the material to react at 190-220.degree. for 12-24 h, cooling, and drying at 100-140.degree..				
ST	calcium silicate thermal insulating fire				